

RADIOGRAPH INFORMATION READER

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Abstract

PROBLEM TO BE SOLVED: To enhance the directivity of stimulating light emitted from a line light source and to improve the intensity of the emitted light so as to obtain an image excellent in S/N by using a broad area laser linearly emitting the stimulating light as the line light source.

SOLUTION: The radiograph information accumulated and recorded on a stimulable phosphor sheet 50 is irradiated with a laser beam L being the linear coherent light emitted from the broad area laser 11 so as to be read. Since the linear laser beam L made incident on the sheet 50 is the coherent light, its directivity and its light condensing degree are higher than those of fluorescence emitted from a fluorescent lamp or the like. Therefore, the stimulable phosphor in the condensing area (line width is about 100 μ m) of the sheet 50 is completely stimulated. As a result, the stimulated luminescence M having the high intensity of the emitted light is emitted from the stimulable phosphor in the condensing area in accordance with the accumulated and recorded radiograph information.

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